Directory

Military IACs

ASIAC

Aerospace Structures
Information Analysis Center

ASIAC scope covers all aspects of airfield pavements and mobility technologies including:

- Aerospace Craft
- Airframes
- Composite Structures
- Computer Programs
- Dynamic Response
- Fatigue Mechanics
- Fracture Mechanics
- History
- Stress Testing
- Structural Analysis;
- Structural Engineering
- Structural Mechanics
- Structural Response
- Structures

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The Aerospace Structures Information and Analysis Center (ASIAC) was established in 1973 by the Air Force's Wright Laboratory (WL) as a central agency for the collection and dissemination of information on aerospace structures. ASIAC is capable of providing authorized users with a variety of information services including technical consultation and evaluation, referral services, abstracting, literature searches, manual searches, state-of-the-art studies, and technical answers. ASIAC also distributes a number of products such as state-of-the-art reports and computer codes not available from other centers. Additionally, ASIAC also has a comprehensive database of structures-related documents consisting of approximately 15,000 hard copy reports and 45,000 in microfiche form.

A major activity of the center is providing information in all aspects of aerospace structures technology. In particular, ASIAC specializes in collecting, evaluating, and disseminating aerospace structures information. ASIAC can save an engineer valuable time in locating specific research information or by locating an appropriate source of information. In addition to its own expertise, ASIAC personnel maintain a working familiarity with other local and national information sources, including government and public libraries, information centers, and sources of government and industry specifications and standards and can direct the user to the WL Technical Library or to DTIC for a broader literature search or appropriate documents. If needed information is outside the sphere of expertise of ASIAC personnel, referral is made to an appropriate source, such as other Information Analysis Centers (IACs), individuals or agencies specializing in the subject topic.

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Services

One of the principal activities of ASIAC is responding to inquiries from the user community. ASIAC also distributes a number of information products. ASIAC services are available to any U.S. government agency or their contractors upon certification of a need-to-know. Requests are subject to approval of the Structures Division, Flight Dynamics Directorate. The following sampling of inquiries and Special Tasks demonstrates the variety of information ASIAC assesses and disseminates to the user community:

User Inquiries:

Flight Vibration Data
Clarkson University

Information on Hypersonic Structures
FDB Associates

Composite Joint Repair Programs
Lockheed Martin Astronautics

Consultation on ASTROS Computer Program
Loral Vought Systems Corp.

DAMGRO Computer Program
Naval Aviation Depot

Bonded and Bolted Joint Computer Programs
U.S. Army Research Laboratory

Special Tasks

Thermal/structural analysis of the X-30 leading edge
ASIAC performed detailed thermal, structural, and acoustic analyses for the National Aerospace Plane (NASP) to support design, fabrication, and testing of design concepts.

Aircraft structural response to internal blast
ASIAC provided analytical support for Wright Laboratory's efforts on the FAA-sponsored commercial aircraft hardening program.

C-5A Fuselage stress analysis
ASIAC provided analysis to support C-5 fatigue cracking problems.

Smart structures
ASIAC performed research efforts to design and test active aeroelastic wing concepts.

Staff

The previous information is only an introduction to the scope and services available through ASIAC. For more information on ASIAC's capabilities, contact any of the following individuals:

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